

## Lisa Locatello



Born in Oderzo (Treviso, Italy) on 02/04/1975

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**Current Position:** Researcher (Ricercatore III° livello)

**Current Affiliation:** Department of Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn - Fano Marine Center, Fano (Italy)

### **Education/Training/Experience**

<b>Institute and Location</b>	<b>Degree / Function</b>	<b>Year</b>	<b>Field of Study</b>
University of Padova, Italy	Laurea – Bsc+Msc	2002	Biological sciences: 'Alternative male mating tactics and pheromonal communication in <i>Gobius niger</i> (Teleostei: Gobiidae)'
University of Padova, Italy. Station de Recherches Sous-marines et Oceanographiques STARESO' (Corsica, France). 'Laboratoire d'Océanographie de Villefranche-Sur-Mer' (Nice, France)	Research assistant	2002-2003	Reproductive biology of Mediterranean blennies
University of Padova, Italy	Ph.D.	2007	Evolutionary Biology: 'Sperm competition and sperm quality in Teleost fish'
University of Padova, Italy	Postdoc	2008-2015	Evolution and ecology of fish reproduction. Ecophysiology and ecotoxicology of marine invertebrates

University of Padova, Italy	Research technician (permanent)	2015-2020	Evolution and ecology of fish reproduction
Stazione Zoologica Anton Dohrn	Researcher (III° livello - short term position)	2020-2021	Evolution and ecology of reproduction in marine organisms
Stazione Zoologica Anton Dohrn	Researcher (III° livello – permanent)	2021-present	Evolution and ecology of reproduction in marine organisms

### **Appointments and awards**

2022-present: **treasurer** of the Italian Society for Evolutionary Biology (SIBE-ISEB).

2017 - 2022: **councillor for the scientific board** of the SIBE-ISEB.

2017 - present: **national scientific qualification** as associate professor (Abilitazione Scientifica Nazionale, seconda fascia) in Zoology (05/B1) and in Comparative Anatomy and Cytology (05/B2) in Italian University (valid until 2023).

February 2020: visiting scientist at the Institute of Marine Research (IMR) of Bergen (Norway).  
Field work at Austevoll Marine Research Station

September 2017: visiting scientist at the Department of Zoology, University of Stockholm (Sweden).  
Grant staff mobility for training Erasmus+ program.

2014: University of Padova, Support program for innovative and excellence young researchers' projects. 'Reliability of sexual signals in a changing environment'. Salary + 24.000 € for research activity. Funding assignment subordinate to external peer-review process. Role: PI.

October 2011: visiting scientist at the Department of Oceanography and Fishery, University of the Azores (Fajal, Portugal). Scientific cruise on the Azorean archipelago part of the CONDOR project for the conservation of seamounts.

### **Other**

Member of the European Society for Evolutionary Biology (ESEB), the Association for the study of Animal Behaviour (ASAB), the Fishery Society of the British Island (FSBI), the British Ecological Society, the Italian Association for the Study of Animal Behaviour (Società Italiana di Etologia, SIE).

### **Students' supervision**

Co-advisor of 9 BSc and 8 MSc students. Advisor of a student on the Higher Education Traineeship Erasmus+ Program (2017), sending institution: University of Kiel, Faculty of Mathematics and Natural Sciences.

### **Publications**

Author of 34 publications on ISI-journals (789 citations, H-index 16, i-10 index 20)

***List of publications of the last 10 years (2012-present):***

(\*shared first authorship; #corresponding author)

Marçeta T., **Locatello L.**, Alban S., Abu Hassan MS., Nik Mohmmad Azmi N., Finos L., Badocco D., Marin MG. (2022). Transgenerational effects and phenotypic plasticity in sperm and larvae of the sea urchin *Paracentrotus lividus* under ocean acidification. *Aquatic Toxicology* 248: 106208.

Fontana C.M., **Locatello L.\*#**, Sabatelli P., Facchinello N., Lidron E., Maradonna F., Carnevali O., Rasotto M.B., Dalla Valle L. (2022) EPG5 knockout leads to the impairment of reproductive success and courtship behaviour in a zebrafish model of autophagy-related diseases. *Biomedical Journal* 45(2): 377-386.

**Locatello L. #**, Borgheresi O., Poli F., Pilastro A., Rasotto M.B. (2021) Black goby territorial males adjust their ejaculate's characteristics in response to the presence of sneakers. *Biology Letters* 17 (8), 20210201.

Facchinello N., Laquatra C., **Locatello L.**, Beffagna G., Branäs Casas R., Fornetto C., Dinarello A., Martorano L., Vettori A., Risato G., Celeghin R., Meneghetti G., Santoro M.M., Delahodde A., Vanzi F., Rasola A., Dalla Valle L., Rasotto M.B., Lodi T., Baruffini E., Argenton F., Tiso N. (2021) Efficient clofilium tosylate-mediated rescue of POLG-related disease phenotypes in zebrafish. *Cell Death and Disease* 12:100.

**Locatello L.#**, Soriano M.E., Rigoni G., Rasotto M.B., Poli F. (2020) Going beyond conventional parameters to unveil sperm quality in fish: the use of fibre optic technology to assess mitochondrial respiratory performance. *Biology Open* 9, bio053306.

Carminato A., Pascoli F., Trocino A., **Locatello L.**, Maccatrozzo L., Palazzi R., Radaelli G., Ballarin C., Bortoletti M., Bertotto D. (2020) Productive results, oxidative stress and contaminant markers in European sea bass: conventional vs. organic feeding. *Animals*, 10(7), 1226.

**Locatello L.#**, Bozzetta E., Pinzoni L., Rasotto M.B. (2020) Female comparative mate choice influences strategic male nesting strategy in the peacock blenny *Salaria pavo*. *Behavioural Processes* 170, 103988.

Rowley A.\*, **Locatello L.\***, Kahrl A., Rego M., Boussard A., Garza-Gisholt E., Kempster R.M., Collin S.P., Giacomello E., Follesa M.C., Porcu C., Evans J.P., Hazin F., Garcia-Gonzales F., Daly-Engel T., Mazzoldi C., Fitzpatrick J. (2019) Sexual selection and the evolution of sperm morphology in sharks. *Journal of Evolutionary Biology* 32:1027-1035.

von Stockum S., Sanchez-Martinez A., Corrà S., Chakraborty J., Marchesan E., Schrepfer E., Nardin A., **Locatello L.**, Da Rè C., Cusumano P., Caicci F., Ferrari V., Costa R., Bubacco L., Rasotto M.B., Whitworth A.J., Scorrano L., Ziviani E. (2019) Inhibition of deubiquitinase USP8 corrects a PINK1 model of mitochondria dysfunction. *Life Science Alliance* 2(2):e201900392.

**Locatello L.\***, Bertotto D.\*, Cerri R., Parmeggiani A.M., Govoni N., Trocino A., Xiccato G., Mordenti O. (2018) Sperm quality in wild-caught and farmed males of the European eel (*Anguilla anguilla*). *Animal Reproduction Science* 198:167-176.

- Poli F., **Locatello L.**, Rasotto M.B. (2018) Seminal fluid enhances competitiveness of territorial males' sperm in a fish with alternative male reproductive tactics. *Journal of Experimental Biology* 221:14;jeb175976.
- Locatello L.#**, Santon M., Mazzoldi C., Rasotto M.B. (2017) The marbled goby, *Pomatoschistus marmoratus*, as a promising species for experimental evolution studies. *Organisms Diversity and Evolution* 17(3):709-716.
- Locatello L.#**, Rasotto M.B. (2017) Females' sampling strategy to comparatively evaluate prospective mates in the peacock blenny *Salaria pavo*. *Science of Nature* 104:57.
- Devigili A., Belluomo V., **Locatello L.**, Rasotto M.B., Pilastro A. (2016) Postcopulatory cost of immune system activation in *Poecilia reticulata*. *Ethology Ecology and Evolution* 29(3):266-279.
- Locatello L.#**, Mazzoldi C., Santon M., Sparaciari S., Rasotto M.B. (2016) Unexpected female preference for smaller males in the marbled goby *Pomatoschistus marmoratus* (Risso, 1810). *Journal of Fish Biology* 89(3):1845-1850.
- Locatello L.**, Poli F., Rasotto M.B. (2015) Context-dependent evaluation of prospective mates in a fish. *Behavioral Ecology and Sociobiology* 69(7):1119-1126.
- Boscolo Papo M., Bertotto D., Pascoli F., **Locatello L.**, Vascellari M., Poltronieri C., Quaglio, Radaelli G. (2014) Induction of brown cells in *Venerupis philippinarum* exposed to benzo(a)pyrene. *Fish and Shellfish Immunology* 40(1), 233-8.
- Locatello L.#**, Fiorito G., Finos L., Rasotto M.B. (2013) Behavioural and immunological responses to an immune-challenge in *Octopus vulgaris*. *Physiology and Behavior* 122:93-99.
- Grimaldi A.M., Belcari P., Pagano E., Cacialli F., **Locatello L.** (2013) Immune responses of *Octopus vulgaris* (Mollusca: Cephalopoda) exposed to titanium dioxide nanoparticles. *Journal of Experimental Marine Biology and Ecology* 447:123–127.
- Locatello L.**, Poli F., Rasotto M.B. (2013) Tactic-specific differences in seminal fluid influence sperm performance. *Proceedings of the Royal Society B* 280(1755): 20122891.
- Utne-Palm A.C., **Locatello L.**, Mayer I., Gibbons M.J., Rasotto M.B. (2013) An insight into the reproductive biology of the bearded goby, *Sufflogobius bibarbatus* (von Bonde, 1923). *Journal of Fish Biology* 82:725-731.
- Pujolar J.M., **Locatello L.**, Zane L., Mazzoldi C. (2012) Body size correlates with fertilization success but not gonad size in grass goby territorial males.
- Locatello L.**, Pizzolon M., Rasotto M.B. (2012) One trait, many signals: different information on male quality is enclosed within the same trait in a blenny fish. *Naturwissenschaften* 99: 863-867.
- Galeotti P., Bernini G., **Locatello L.**, Sacchi R., Fasola M., Rubolini D. (2012) Sperm traits negatively covary with size and asymmetry of a secondary sexual trait in a freshwater crayfish. *PLoS ONE* 7(8): e43771.

Pizzolon M\*, **Locatello L.\***, Warner R.R., Chimento N., Finos L., Rasotto M.B. (2012) Linking male qualities to multiple display traits: an example in a fish with exclusive male care. *Behavioral Ecology and Sociobiology* 66(3):497-504.